#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 6 HOUSTON BRANCH 10625 FALLSTONE RD. HOUSTON, TEXAS 77099

September 1, 2016

MEMORANDUM

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The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

MF1D00

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

# **ENVIRONMENTAL SERVICES ASSISTANCE TEAM**

ESAT Region 6 10625 Fallstone Road Houston, TX 77099

#### Alion Science and Technology

MEMORANDUM

DATE: August 26, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

Linda Hoffman, Data Reviewer, ESAT FROM:

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT 063

SUBJECT: CLP Data Review

Contract No.: EP-W-13-026

TO No.: 002 Task/Sub-Task: 2-12

ESAT Doc. No.: 1602-212-0022 TDF No.: 6-16-293A

ESAT File No.: I-0688

Attached is the data review summary for Case # 46321 SDG # MF1D00

Site Lane Plating Works

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 6

### HOUSTON BRANCH 10625 FALLSTONE ROAD HOUSTON, TEXAS 77099

### INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 46321	SITE Lane Plating Works
LABORATORY ALS CONTRACT# EP-W-14-027 SDG# MF1D00 SOW# ISM02.3 SF# 303DD2A6MS	NO. OF SAMPLES 11  MATRIX 7 Soil/4 Sediment  REVIEWER (IF NOT ESB) ESAT  REVIEWER'S NAME Linda Hoffman  COMPLETION DATE August 26, 2016
MF1D01 MF1D02	MF1D04 MF1D09 MF1D06 MF1D10 MF1D07 MF1D11 MF1D08

### DATA ASSESSMENT SUMMARY

		CN
1.	HOLDING TIMES	_0_
2.	CALIBRATIONS	_0_
3.	BLANKS	O
4.	MATRIX SPIKES	O
5.	DUPLICATE ANALYSIS	0
6.	ICP QC	N/A
7.	LCS	N/A
8.	SAMPLE VERIFICATION	0
9.	OTHER QC	N/A
10.	OVERALL ASSESSMENT	_O_

O = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

#### ACTION ITEMS:

AREAS OF CONCERN:

### COMMENTS/CLARIFICATIONS REGION 6 CLP QA REVIEW

# CASE 46321 SDG MF1D00 SITE Lane Plating Works LAB ALS

COMMENTS: This SDG consisted of seven soil and four sediment samples for cyanide analysis following SOW ISM02.3. The sampler designated sample MF1D02 for QC analyses.

S4VEM Review was performed for this data package as requested by the Region. The target analyte of concern with an action level of 40~mg/kg was cyanide. Cyanide was not detected above the action level in any of the samples.

OVERALL ASSESSMENT: All results were acceptable. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for two reporting issues (see Resubmission Request). The laboratory resubmission will not impact the DST, so the DST included is the final version.

# INORGANIC ACRONYMS

	Continuing Calibration Blank
CCB	Continuing Calibration Brains
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide Cyantitation Limit
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously
	called Modified CADRE Review) Stage 4 Validation Electronic and Manual (previously
S4VEM	called Standard Review)
ana	Sample Delivery Group
SDG	Sample Management Office
SMO	Statement of Work
SOW	Sample Quantitation Limit
SQL	Target Analyte List
TAL	141900 11141 00

#### HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Inorganic Data Validation Qualifier (see

Inorganic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

PRPDATE: Sample Preparation Date LRDATE: Laboratory Receipt Date

LEVEL: Sample Level

PERSOLD: Sample Percent Solids

SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water

Samples)

FINLVOL: Final Sample Volume METHOD: Method of Analysis STATLOC: Station Location

Disclaimer:

ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

# INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U Not detected at reported quantitation limit.
- L Reported concentration is between the MDL and the CRQL.
- J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
- R Result is unusable.
- F A possibility of a false negative exists.
- UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
- High biased. Actual concentration may be lower than the concentration reported.
- Low biased. Actual concentration may be higher than the concentration reported.
- W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDOAL	UNITS	ADJCRQL	SMPDATE	DDDDATE	LDDATE		-				
46321	MF1D00	MF1D00	162033100	1 S	Field_Sample	07/27/2016	11:11:53	57-12-5	Cvanide	0.29					PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
46321	MF1D00	MF1D01	1620331002	2 0						0.29	LJ	mg/kg	0.59	07/20/2016	07/26/2016	07/21/2016	Low	83.5	0.5066	6	AS	SO-01
					Field_Sample				Cyanide	0.56	U	mg/kg	0.56	07/20/2016	07/27/2016	07/21/2016	Low	82.3	0.5433	c		
46321	MF1D00	MF1D02	1620331003	3 S	Field_Sample	07/27/2016	11:14:35	57-12-5	Cyanide	0.48	LJ	mg/kg							57-57-9-50-50-5-5-5	O	AS	SO-02
46321	MF1D00	MF1D03	1620331006	6 S	Field_Sample										07/26/2016		100000000000000000000000000000000000000	82.4	0.5303	6	AS	SO-03
46321	ME1DOO	MF1D04	1620331007	7.0					Cyanide	0.80		mg/kg	0.59	07/20/2016	07/26/2016	07/21/2016	Low	78.1	0.5422	6	AS	SO-04
					Field_Sample				Cyanide	0.24	LJ	mg/kg	0.57	07/20/2016	07/26/2016	07/21/2016	Low			1.56.00		
46321	MF1D00	MF1D06	1620331008	3 S	Field_Sample	07/27/2016	11:19:05	57-12-5	Cvanide	0.47	LJ	mg/kg							0.5817	6	AS	SO-05
46321	MF1D00	MF1D07	1620331009	9 S	Field_Sample									07/20/2016	07/26/2016	07/21/2016	Low	82.5	0.5142	6	AS	SO-07
46331	ME1DOO	MF1D08							Cyanide	0.59	LJ	mg/kg	0.61	07/20/2016	07/26/2016	07/21/2016	Low	82.6	0.504	6	AS	SO-08
			1620331010	) 5	Field_Sample	07/27/2016	11:20:17	57-12-5	Cyanide	0.67	U	mg/kg	0.67	07/20/2016	07/26/2016	07/21/2016	Laur			-		
46321	MF1D00	MF1D09	1620331011	S	Field_Sample	07/27/2016	11:22:59	57-12-5	Cyanide	0.11	LJ							72.8	0.5073	6	AS	SE-01
46321	MF1D00	MF1D10	1620331012	2 9								mg/kg	0.73	07/20/2016	07/26/2016	07/21/2016	Low	66.2	0.5219	6	AS	SE-02
					Field_Sample				Cyanide	0.63	U	mg/kg	0.63	07/20/2016	07/26/2016	07/21/2016	Low	71.4	0.556	6		
40321	MF1D00	MF1D11	1620331013	3 S	Field_Sample	07/27/2016	11:24:11	57-12-5	Cyanide	0.84	U	mg/kg			07/26/2016			1200		o .	MO	SE-03
													0.04	0112012010	01/20/2016	0//21/2016	Low	59.4	0.501	6	AS	SE-04

# INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

CDA L L ID.	AI C			ORIGINALS	YES	NO	N/A
EPA Lab ID:	ALS			CUSTODY SEALS			T
	Salt Lake City, UT			1. Present on package?	X		
Region:	6 Audit No.:	46321/MF1D00			X		_
Re_Submitted	CSF? Yes	No	X	2. Intact upon receipt?	-		+
Box No(s):	1			FORM DC-2	X		
COMMENTS:				Numbering scheme accurate?      Are enclosed documents listed?	X		1
						_	+-
4./15. Sample	e tags were not required	I for this case.		5. Are listed documents enclosed?	X		
				FORM DC-1			
				6. Present?	X		
				7. Complete?	X		
				8. Accurate?	X		
				TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
				9. Signed?	X		
				10. Dated?	X		
				AIRBILLS/AIRBILL STICKER	,,		
				11. Present?	X	-	+
				12. Signed?	X		
				13. Dated?	X		
				SAMPLE TAGS			
				14. Does DC-1 list tags as being included?			X
				15. Present?			X
				OTHER DOCUMENTS			
				16. Complete?	X		+
				17. Legible?	X		_
				18. Original?	X		
Over for addit	ional comments.			18a. If "NO", does the copy indicate where original documents are located?			>
Audited by:	A Alei	1/2		L. Hoffman / ESAT Data Reviewer	Date	08	3/24/16
	X VIII				Date	•	
Audited by:	V /	Signature		Printed Name/Title			

DC-2\_

### Page 1 of 1

In Reference To: (I-0688)
Case No.: 46321 SDG(s): MF1D00

# Contract Laboratory Program REGIONAL/LABORATORY COMMUNICATION SYSTEM

#### Resubmission Request

Laboratory Name:	ALS				
Lab Contact:	Roxanne Olson				
Region:	6				
Regional Contact:	Raymond Flores - EPA				
ESAT Reviewer:	Linda Hoffman - ESAT				

In reference to data for the following fractions:

CN

### Summary of Questions/Issues:

- The CRQL reported for the ICBs and CCBs on all Form 3s is incorrect. Please correct and resubmit these pages with the proper pagination.
- Please submit a Form 9 with the ug/L MDL since the ICB and CCB concentrations are reported in ug/L (ISM02.3, p. B-43, sec. 3.4.11.1).

NOTE: Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM02.3, p. B-9, sec. 2.2.1). Custody seals are required only for regular mail shipments.

Please respond to the above item within 5 business days (ISM02.3, p. B-9, sec. 2.2.1) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

DateShipped: 7/20/2016 CarrierName: FedEx AirbillNo: 810257801911

#### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas

Case #: 46321

Cooler #: 1

No: 6-072016-154639-0005

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D00	MF1D00	Soil/ Stephen Ellis	Grab	CN(21)	1001 (None) (1)	SO-01	07/20/2016 14:15	Field Sample
MF1D01	MF1D01	Soil/ Stephen Ellis	Grab	CN(21)	1003 (None) (1)	SO-02	07/20/2016 14:30	Field Sample
MF1D02	MF1D02	Soil/ Bret Kendrick	Grab	CN(21)	1005 (None) (1)	SO-03	07/20/2016 10:35	Lab QC
MF1D03	MF1D03	Soil/ Bret Kendrick	Grab	CN(21)	1007 (None) (1)	SO-04	07/20/2016 10:55	Field Sample
MF1D04	MF1D04	Soil/ Bret Kendrick	Grab	CN(21)	1009 (None) (1)	SO-05	07/20/2016 11:10	Field Sample
MF1D06	MF1D06	Soil/ Stephen Ellis	Grab	CN(21)	1013 (None) (1)	SO-07	07/20/2016 09:15	Field Sample
MF1D07	MF1D07	Soil/ Bret Kendrick	Grab	CN(21)	1015 (None) (1)	SO-08	07/20/2016 10:40	Field Duplicate
MF1D08	MF1D08	Sediment/ Stephen Ellis	Grab	CN(21)	1017 (None) (1)	SE-01	07/20/2016 12:20	Field Sample
MF1D09	MF1D09	Sediment/ Stephen Ellis	Grab	CN(21)	1019 (None) (1)	SE-02	07/20/2016 14:40	Field Sample
MF1D10	MF1D10	Sediment/ Stephen Ellis	Grab	CN(21)	1021 (None) (1)	SE-03	07/20/2016 09:45	Field Sample
MF1D11	MF1D11	Sediment/	Grab	CN(21)	1023 (None) (1)	SE-04	07/20/2016 09:30	Field Sample

Sample(s) to be used for Lab QC: MF1D02 Tag 1005 - Special Instructions: Samples MF1D02, MF1D03, MF1D04, and MF1D07 may have high concentrations.

Stephen Ellis

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: CN=CLP Cyanide

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	11	7/20/14			
	Schemestorie	1120 114			
		2			

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 6 HOUSTON BRANCH 10625 FALLSTONE RD. HOUSTON, TEXAS 77099

September 1, 2016

### **MEMORANDUM**

SUBJECT:	Contract Lal	ooratory Program Data Review
FROM:		ores, Alternate ESAT Regional Project Officer tal Services Branch (6MD-HL)
TO:	Bret Kendrie	ck, Superfund Project Manager (6SF-TR)
	Site:	LANE PLATING WORKS
	Case#:	46321
	SDG#:	MF1D18

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

# **ENVIRONMENTAL SERVICES ASSISTANCE TEAM**

ESAT Region 6 10625 Fallstone Road Houston, TX 77099

#### Alion Science and Technology

#### MEMORANDUM

DATE: August 26, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT nb ]

SUBJECT: CLP Data Review

Contract No.: EP-W-13-026

TO No.: 002
Task/Sub-Task: 2-12

ESAT Doc. No.: 1602-212-0023 TDF No.: 6-16-294A ESAT File No.: I-0689

Attached is the data review summary for Case # 46321

SDG # MF1D18

Site Lane Plating Works

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 6 HOUSTON BRANCH 10625 FALLSTONE ROAD HOUSTON, TEXAS 77099

#### INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 46321 LABORATORY ALS CONTRACT# EP-W-14-027 SDG# MF1D18 SOW# ISM02.3 SF# 303DD2A6MS	SITE Lane Plating Works  NO. OF SAMPLES 12  MATRIX 1 Soil/11 Sediment  REVIEWER (IF NOT ESB) ESAT  REVIEWER'S NAME Linda Hoffman  COMPLETION DATE August 26, 2016				
MF1D12 M MF1D13 M	F1D15 MF1D19 F1D16 MF1D20 F1D17 MF1D21 F1D18 MF1D22				
DA	TA ASSESSMENT SUMMARY				
	CN				
1. HOLDING TIMES	0				

1.	HOLDING TIMES	0
2.	CALIBRATIONS	0
3.	BLANKS	0
4.	MATRIX SPIKES	0
5.	DUPLICATE ANALYSIS	0
6.	ICP QC	N/A
7.	LCS	N/A
8.	SAMPLE VERIFICATION	0
9.	OTHER QC	N/A
10.	OVERALL ASSESSMENT	0_

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.

NA = Not applicable.

#### ACTION ITEMS:

#### AREAS OF CONCERN:

#### COMMENTS/CLARIFICATIONS REGION 6 CLP QA REVIEW

#### CASE 46321 SDG MF1D18 SITE Lane Plating Works LAB ALS

COMMENTS: This SDG consisted of one soil and eleven sediment samples for cyanide analysis following SOW ISM02.3. The sampler designated sample MF1D18 for QC analyses.

The target analyte of concern with an action level of 40 mg/kg was cyanide. Cyanide was not detected above the action level in any of the samples.

S3VEM Review was performed for this package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: All results were acceptable. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for some CSF and reporting issues (see Resubmission Request). The laboratory resubmission will not impact the DST, so the DST included is the final version.

#### INORGANIC ACRONYMS

Continuing Calibration Blank CCB Contract Compliance Screening CCS Continuing Calibration Verification CCV CN Contract Required Quantitation Limit CROL Complete SDG File CSF Data Summary Table DST EXES Data Manager EDM HG Mercury ICB Initial Calibration Blank Inductively Coupled Plasma ICP Inductively Coupled Plasma-Atomic Emission Spectroscopy ICP-AES ICP-MS Inductively Coupled Plasma-Mass Spectrometry Interference Check Sample ICS Initial Calibration Verification ICV Internal Standard IS Laboratory Control Sample LCS MDL Method Detection Limit National Functional Guidelines NFG Performance Evaluation PE %D Percent Difference %R Percent Recovery Percent Relative Intensity %RI Percent Relative Standard Deviation %RSD Ouality Assurance OA Quality Control OC Quantitation Limit OL Relative Percent Difference RPD RSCC Regional Sample Control Center Stage 3 Validation Electronic and Manual (previously S3VEM called Modified CADRE Review) Stage 4 Validation Electronic and Manual (previously S4VEM called Standard Review) SDG Sample Delivery Group Sample Management Office SMO Statement of Work SOW Sample Quantitation Limit SQL Target Analyte List TAL

#### HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Inorganic Data Validation Qualifier (see

Inorganic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

PRPDATE: Sample Preparation Date LRDATE: Laboratory Receipt Date

LEVEL: Sample Level

PERSOLD: Sample Percent Solids

SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water

Samples)

FINLVOL: Final Sample Volume METHOD: Method of Analysis STATLOC: Station Location

Disclaimer:

ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

#### INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U Not detected at reported quantitation limit.
- L Reported concentration is between the MDL and the CRQL.
- J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
- R Result is unusable.
- F A possibility of a false negative exists.
- UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
- + High biased. Actual concentration may be lower than the concentration reported.
- Low biased. Actual concentration may be higher than the concentration reported.
- W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CA	SE :	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUN	ANALYTE	E CONC	VALDQAL	UNITS	ADJCRQL	. SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
463	21 M	F1D18	MF1D05	1620228001	S	Field_Sample	07/27/2016	12:19:02	57-12-5	Cyanide	0.56	U	mg/kg	0.56	07/19/2016	07/26/2016	07/20/2016	Low	80.3	0.5644	6	AS	SO-06
463	21 M	F1D18	MF1D12	1620228002	S	Field_Sample	07/27/2016	12:19:20	57-12-5	Cyanide	0.93		mg/kg	0.79	07/19/2016	07/26/2016	07/20/2016	Low	57.9	0.549	6	AS	SE-05
463	21 M	F1D18	MF1D13	1620467001	S	Field_Sample	07/27/2016	12:23:14	57-12-5	Cyanide	0.18	LJ	mg/kg	0.73	07/21/2016	07/26/2016	07/22/2016	Low	68.9	0.5001	6	AS	SE-06
463	21 M	F1D18	MF1D14	1620228004	S	Field_Sample	07/27/2016	12:20:14	57-12-5	Cyanide	0.73	U	mg/kg	0.73	07/19/2016	07/26/2016	07/20/2016	Low	63.0	0.5376	6	AS	SE-07
463	21 M	F1D18	MF1D15	1620467002	S	Field_Sample	07/27/2016	12:23:32	57-12-5	Cyanide	0.10	LJ	mg/kg	0.68	07/21/2016	07/26/2016	07/22/2016	Low	67.1	0,5548	6	AS	SE-08
463	21 M	F1D18	MF1D16	1620467003	S	Field_Sample	07/27/2016	12:24:26	57-12-5	Cyanide	1.1	U	mg/kg	1.1	07/21/2016	07/26/2016	07/22/2016	Low	45.4	0.5028	6	AS	SE-09
463	21 M	F1D18	MF1D17	1620228005	S	Field_Sample	07/27/2016	12:20:32	57-12-5	Cyanide	0.034	LJ	mg/kg	0.58	07/19/2016	07/26/2016	07/20/2016	Low	83.9	0.5104	6	AS	SE-10
463	21 M	F1D18	MF1D18	1620157001	S	Field_Sample	07/27/2016	12:12:08	57-12-5	Cyanide	0.35	LJ	mg/kg	0.59	07/18/2016	07/26/2016	07/19/2016	Low	76.6	0.5533	6	AS	SE-11
463	21 M	F1D18	MF1D19	1620157004	S	Field_Sample	07/27/2016	12:16:02	57-12-5	Cyanide	0.067	LJ	mg/kg	0.55	07/18/2016	07/26/2016	07/19/2016	Low	77.5	0.5914	6	AS	SE-12
463	21 M	F1D18	MF1D20	1620157005	S	Field_Sample	07/27/2016	12:16:20	57-12-5	Cyanide	0.62		mg/kg	0.59	07/18/2016	07/26/2016	07/19/2016	Low	71.8	0.5897	6	AS	SE-13
463	21 M	F1D18	MF1D21	1620467004	S	Field_Sample	07/27/2016	12:24:44	57-12-5	Cyanide	0.74	U	mg/kg	0.74	07/21/2016	07/26/2016	07/22/2016	Low	65.4	0.5192	6	AS	SE-14
463	21 M	F1D18	MF1D22	1620467005	S	Field_Sample	07/27/2016	12:27:26	57-12-5	Cyanide	0.65	LJ	mg/kg	0.98	07/21/2016	07/26/2016	07/22/2016	Low	45.6	0.5618	6	AS	SE-15

# INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

EPA Lab ID: ALS			ORIGINALS	YES	NO	N/A
Lab Location: Salt Lal	ke City, UT		CUSTODY SEALS			
Region: 6		16321/MF1D18	Present on package?	X		
Re_Submitted CSF?	Yes	No X	2. Intact upon receipt?	X		
Box No(s): 1	-		FORM DC-2			
COMMENTS:			Numbering scheme accurate?	X		
			4. Are enclosed documents listed?	X		
14./15. Sample tags wer	re not required for	r this case.	5. Are listed documents enclosed?	X		
			FORM DC-1			
			6. Present?	X		_
			7. Complete?	X		
			8. Accurate?	X		
			TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
			9. Signed?	X		
			10. Dated?	X		
			AIRBILLS/AIRBILL STICKER			1
			11. Present?	X		
			12. Signed?	X		
			13. Dated?	X		
			SAMPLE TAGS			
			14. Does DC-1 list tags as being included?			X
			15. Present?			X
			OTHER DOCUMENTS			
			16. Complete?	X		_
			17. Legible?	X		

ver for additional comments,	18a. If "NO", does the copy indicate where original documents are located?		1	X
audited by:	L. Hoffman / ESAT Data Reviewer	Date	08/25/1	6
audited by:		Date		
Signature	Printed Name/Title			

18. Original?

DC-2

#### Page 1 of 1

In Reference To: (I-0689)
Case No.: 46321 SDG(s): MF1D18

# Contract Laboratory Program REGIONAL/LABORATORY COMMUNICATION SYSTEM

#### Resubmission Request

Laboratory Name:	ALS					
Lab Contact:	Roxanne Olson					
Region:	6					
Regional Contact:	Raymond Flores - EPA					
ESAT Reviewer:	Linda Hoffman - ESAT					

In reference to data for the following fractions:

CSF Issues CN

Summary of Questions/Issues:

#### CSF

The airbill number on the traffic report on page 10 does not agree with the airbill number recorded on the associated Form DC-1 (p. 13) or submitted airbill (p. 78). Please resolve and document this discrepancy in a revised SDG Narrative.

#### CN

- The CRQL reported for the ICBs and CCBs on all Form 3s is incorrect. Please correct and resubmit these pages with the proper pagination.
- Please submit a Form 9 with the ug/L MDL since the ICB and CCB concentrations are reported in ug/L (ISM02.3, p. B-43, sec. 3.4.11.1).

NOTE: Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM02.3, p. B-9, sec. 2.2.1). Custody seals are required only for regular mail shipments.

Please respond to the above item within 5 business days (ISM02.3, p. B-9, sec. 2.2.1) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

DateShipped: 7/18/2016 CarrierName: FedEx AirbillNo: 809524402173

#### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas Case #: 46321 Cooler #: 1 No: 6-070816-132935-0001

Lab: ALS Laboratory Group - Salt Lake City Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D18	Sediment/ Matthew Hubbard	Grab	CN(21)	1037 (None) (1)	SE-11	07/18/2016 16:05	Lab QC
MF1D19	Sediment/ Stephen Ellis	Grab	CN(21)	1114 (None) (1)	SE-12	07/18/2016 15:47	Field Sample
MF1D20	Sediment/ Stephen Ellis	Grab	CN(21)	1041 (None) (1)	SE-13	07/18/2016 15:20	Field Sample
MF1D37	Surface Water/ Matthew Hubbard	Grab	CN(21)	1077 (NaOH pH >10) (1)	SW-11	07/18/2016 16:03	Lab QC
MF1D38	Surface Water/ Stephen Ellis	Grab	CN(21)	1081 (NaOH pH >10) (1)	SW-12	07/18/2016 15:45	Field Sample
MF1D39	Surface Water/ Stephen Ellis	Grab	CN(21)	1083 (NaOH pH >10) (1)	SW-13	07/18/2016 15:15	Field Sample
	•						
	MF1D18  MF1D19  MF1D20  MF1D37	No.  MF1D18  Sediment/ Matthew Hubbard  MF1D19  Sediment/ Stephen Ellis  MF1D20  Sediment/ Stephen Ellis  MF1D37  Surface Water/ Matthew Hubbard  MF1D38  Surface Water/ Stephen Ellis  MF1D39  Surface Water/ Stephen Ellis	No.  MF1D18  Sediment/ Matthew Hubbard  MF1D19  Sediment/ Stephen Ellis  MF1D20  Sediment/ Stephen Ellis  MF1D37  Surface Water/ Matthew Hubbard  MF1D38  Surface Water/ Stephen Ellis  MF1D39  Surface Water/ Stephen Ellis  MF1D39  Grab  MF1D38  Surface Water/ Stephen Ellis	No. Method  MF1D18 Sediment/ Matthew Hubbard  MF1D19 Sediment/ Stephen Ellis  MF1D20 Sediment/ Stephen Ellis  MF1D37 Surface Water/ Matthew Hubbard  MF1D38 Surface Water/ Stephen Ellis  MF1D39 Surface Water/ Stephen Ellis	No.         Method           MF1D18         Sediment/ Matthew Hubbard         Grab         CN(21)         1037 (None) (1)           MF1D19         Sediment/ Stephen Ellis         Grab         CN(21)         1114 (None) (1)           MF1D20         Sediment/ Stephen Ellis         Grab         CN(21)         1041 (None) (1)           MF1D37         Surface Water/ Matthew Hubbard         Grab         CN(21)         1077 (NaOH pH >10) (1)           MF1D38         Surface Water/ Stephen Ellis         Grab         CN(21)         1081 (NaOH pH >10) (1)           MF1D39         Surface Water/ Stephen Ellis         Grab         CN(21)         1083 (NaOH pH >10) (1)	No.         Method           MF1D18         Sediment/ Matthew Hubbard         Grab         CN(21)         1037 (None) (1)         SE-11           MF1D19         Sediment/ Stephen Ellis         Grab         CN(21)         1114 (None) (1)         SE-12           MF1D20         Sediment/ Stephen Ellis         Grab         CN(21)         1041 (None) (1)         SE-13           MF1D37         Surface Water/ Matthew Hubbard         Grab         CN(21)         1077 (NaOH pH >10) (1)         SW-11           MF1D38         Surface Water/ Stephen Ellis         Grab         CN(21)         1081 (NaOH pH >10) (1)         SW-12           MF1D39         Surface Water/ Stephen Ellis         Grab         CN(21)         1083 (NaOH pH >10) (1)         SW-13	No.         Method         Date/Time           MF1D18         Sediment/ Matthew Hubbard         Grab         CN(21)         1037 (None) (1)         SE-11         07/18/2016 16:05           MF1D19         Sediment/ Stephen Ellis         Grab         CN(21)         1114 (None) (1)         SE-12         07/18/2016 15:47           MF1D20         Sediment/ Stephen Ellis         Grab         CN(21)         1041 (None) (1)         SE-13         07/18/2016 15:20           MF1D37         Surface Water/ Matthew Hubbard         Grab         CN(21)         1077 (NaOH pH >10) (1)         SW-11         07/18/2016 16:03           MF1D38         Surface Water/ Stephen Ellis         Grab         CN(21)         1081 (NaOH pH >10) (1)         SW-12         07/18/2016 15:45           MF1D39         Surface Water/ Stephen Ellis         Grab         CN(21)         1083 (NaOH pH >10) (1)         SW-13         07/18/2016 15:15

Sample(s) to be used for Lab QC: MF1D18 Tag 1037, MF1D37 Tag 1077

Analysis Key: CN=CLP Cyanide

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Sdrenne Love	7/18/16			
	Janemey W	1/10/16			
		25			
			×		

DateShipped: 7/19/2016 CarrierName: FedEx AirbillNo: 809524402130

Special Instructions:

#### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas Case #: 46321 Cooler #: 1 No: 6-071916-152450-0003

Lab: ALS Laboratory Group - Salt Lake City Lab Contact: Meredith Edwards

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D05	MF1D05	Soil/ Stephen Ellis	Grab	CN(21)	1011 (None) (1)	SO-06	07/19/2016 12:55	Field Sample
MF1D12	MF1D12	Sediment/ Stephen Ellis	Grab	CN(21)	1025 (None) (1)	SE-05	07/19/2016 12:45	Field Sample
MF1D14	MF1D14	Sediment/ Stephen Ellis	Grab	CN(21)	1029 (None) (1)	SE-07	07/19/2016 14:55	Field Sample
MF1D17	MF1D17	Sediment/ Matthew Hubbard	Grab	CN(21)	1035 (None) (1)	SE-10	07/19/2016 09:55	Field Sample
MF1D31	MF1D31	Surface Water/ Stephen Ellis	Grab	CN(21)	1064 (NaOH pH >10) (1)	SW-05	07/19/2016 15:20	Field Sample
MF1D32	MF1D32	Surface Water/ Stephen Ellis	Grab	CN(21)	1066 (NaOH pH >10) (1)	SW-06	07/19/2016 15:05	Field Sample
MF1D33	MF1D33	Surface Water/ Stephen Ellis	Grab	CN(21)	1069 (NaOH pH >10) (1)	SW-07	07/19/2016 14:50	Field Sample
							****	
					-			

tems/Reason	Relinquished by (Signature and Organization)	Date (Time	D 1 11 101		
10110111000011	remiquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receip
	601	7/10/			
	Daveni france	1117/16			
		11110			

Poge 11 412

34 023

DateShipped: 7/21/2016 CarrierName: FedEx AirbillNo: 810257801841

#### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas Case #: 46321 Cooler #: 1 No: 6-072116-134031-0007

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D13	MF1D13	Sediment/ Stephen Ellis	Grab	CN(21)	1027 (None) (1)	SE-06	07/21/2016 12:05	Field Sample
MF1D15	MF1D15	Sediment/ Stephen Ellis	Grab	CN(21)	1031 (None) (1)	SE-08	07/21/2016 11:10	Field Sample
MF1D16	MF1D16	Sediment/ Stephen Ellis	Grab	CN(21)	1033 (None) (1)	SE-09	07/21/2016 10:40	Field Sample
MF1D21	MF1D21	Sediment/ Stephen Ellis	Grab	CN(21)	1043 (None) (1)	SE-14	07/21/2016 11:15	Field Duplicate
MF1D22	MF1D22	Sediment/ . Stephen Ellis	Grab	CN(21)	1045 (None) (1)	SE-15	07/21/2016 10:45	Field Duplicate
MF1D34	MF1D34	Surface Water/ Stephen Ellis	Grab	CN(21)	1071 (NaOH pH >10) (1)	SW-08	07/21/2016 11:00	Field Sample
MF1D35	MF1D35	Surface Water/ Stephen Ellis	Grab	CN(21)	1073 (NaOH pH >10) (1)	SW-09	07/21/2016 10:30	Field Sample
MF1D40	MF1D40	Surface Water/ Stephen Ellis	Grab	GN(21)	1085 (NaOH pH >10) (1)	SW-14	07/21/2016 11:05	Field Duplicate
MF1D41	MF1D41	Surface Water/ Stephen Ellis	Grab	CN(21)	1087 (NaOH pH >10) (1)	SW-15	07/21/2016 10:35	Field Duplicate
						1		

	Shipment for Case Complete? Y
Special Instructions:	Samples Transferred From Chain of Custody #
Analysis Key: CN=CLP Cyanide	

Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Adama Mare Apre	7/2/1/10			
governing 40 C	100110			
		· ·		
	Relinquished by (Signature and Organization)	Relinquished by (Signature and Organization)  Date/Time  7/2///	Relinquished by (Signature and Organization)  Date/Time Received by (Signature and Organization)	Relinquished by (Signature and Organization)  Date/Time  Received by (Signature and Organization)  Date/Time

# **ADDENDUM**

34 026

### **Data Review Results**

Thu, 11 Aug 2016 15:24:35

Lab Code: ALS SDG: MF1D18 Contract: EPW14027 Submission Group 1d: 30168001
Lab Name: ALS Environmental (SLC) Case: 46321 Client: EPA Region 6 SOW: ISM02.3

### HoldingTimes Preservation

#### Method - Cyanide

Test Name: EXES-462

Defect Message: The following soil samples were not maintained at = 6°C (but not frozen) from time of collection until receipt at the laboratory. Use Professional Judgement to qualify detects as J- and nondetects as R.

Associated Samples: MF1D05, MF1D12, MF1D14, MF1D17

And the second of the second o							
Defective Analyte	Defective Samples/Analyses						
	MF1D14, MF1D12, MF1D17, MF1D05						

# **Data Review Results**

Thu, 11 Aug 2016 15:24:35

Lab Code: ALS SDG: MF1D18 Contract: EPW14027 Submission Group Id: 30168001
Lab Name: ALS Environmental (SLC) Case: 46321 Client: EPA Region 6 SOW: ISM02.3

### InitialCalibration

# **Data Review Results**

Thu, 11 Aug 2016 15:24:35

Lab Code: ALS	SDG: MF1D18	Contract: EPW14027	Submission Group Id: 30168001 SOW: ISM02.3	
Lab Name: ALS Environmental (SLC)	Case: 46321	Client: EPA Region 6		

# Continuing Calibration Verification

# **Data Review Results**

Thu, 11 Aug 2016 15:24:35

SDG: MF1D18 Lab Code: ALS Case: 46321 Lab Name: ALS Environmental (SLC)

Contract: EPW14027

Client: EPA Region 6

Submission Group Id: 30168001

SOW: ISM02.3

### Blanks

#### Method - Cyanide

Test Name: EXES-479

Defect Message: The following samples have analyte results greater than CRQLs. The associated CCB analyte results are less than or equal to CRQLs. Use Professional

Judgement to qualify detects.

Associated Samples: MF1D12, MF1D20

Associated Samples: IVIF1D12, IV	IF1D20	
Defective Analyte	Defective Samples/Analyses	
Cyanide	MF1D12, MF1D20	

Test Name: EXES-480

Defect Message: The following samples are associated with CCB that has analyte results less than or equal to (-MDLs) but greater than or equal to (-CRQLs). Use

Professional Judgement to qualify detects and nondetects.

Associated Samples: MF1D05, MF1D12, MF1D13, MF1D14, MF1D15, MF1D16, MF1D17, MF1D18, MF1D19, MF1D20, MF1D21, MF1D22

Defective Analyte	Defective Samples/Analyses
Cyanide	MF1D20, MF1D22, MF1D18, MF1D19, MF1D21, MF1D05, MF1D12, MF1D13, MF1D17, MF1D14, MF1D16, MF1D15

### **Data Review Results**

Thu, 11 Aug 2016 15:24:35

Lab Code: ALS SDG: MF1D18 Contract: EPW14027 Submission Group Id: 30168001
Lab Name: ALS Environmental (SLC) Case: 46321 Client: EPA Region 6 SOW: ISM02.3

### MatrixSpikes

Method - Cyanide

Test Name: EXES-592

Defect Message: The following samples are associated with Matrix Spike sample that has spike analyte %R within 30 - 74% and Post-digestion spike analyte %R greater than or equal to 75%. Detects are qualified as J. Nondetects are qualified as UJ.

□ Associated Samples: MF1D05, MF1D12, MF1D13, MF1D14, MF1D15, MF1D16, MF1D17, MF1D18, MF1D19, MF1D20, MF1D21, MF1D22 • Defective Associated Samples: MF1D05, MF1D12, MF1D13, MF1D13, MF1D14, MF1D15, MF1D16, MF1D17, MF1D18, MF1D19, MF1D20, MF1D21, MF1D22

Associated Samples: MT 1005, MT 1012, MT 1013, MT 1013, MT 1010, MT 1017, MT 1019, MT 1021, MT 1021, MT 1022		
Defective Analyte	Defective Samples/Analyses	
Cyanide	MF1D18A	

# **Data Review Results**

Thu, 11 Aug 2016 15:24:35

SDG: MF1D18 Lab Code: ALS Case: 46321 Lab Name: ALS Environmental (SLC)

Contract: EPW14027 Client: EPA Region 6 Submission Group Id: 30168001

SOW: ISM02.3

# TargetAnalyteQuantitation

Method - Cyanide

Test Name: EXES-790

Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified

as estimated J.

Associated Samples: MF1D13, MF1D15, MF1D17, MF1D18, MF1D18D, MF1D19, MF1D22

Associated Samples: MF1D13, MF1D13	, WIF 1017, WIF 1016, WIF 1016, WIF 1017, WIF 1022
Defective Analyte	Defective Samples/Analyses
Cyanide	MF1D18D, MF1D22, MF1D18, MF1D17, MF1D15, MF1D13, MF1D19

# **Data Review Results**

Thu, 11 Aug 2016 15:24:35

Lab Code: ALS	SDG: MF1D18	: MF1D18 Contract: EPW14027 Submission Group Id: 30	
Lab Name: ALS Environmental (SLC)	Case: 46321	Case: 46321 Client: EPA Region 6 SOW: I	
	Sampl	eAnalysis	

Thu, 11 Aug 2016 15:24:35

Data	Review	Results

Submission Group Id: 30168001 Contract: EPW14027 SDG: MF1D18 Lab Code: ALS Client: EPA Region 6 SOW: ISM02.3 Lab Name: ALS Environmental (SLC) Case: 46321

# **Duplicates**

# **Data Review Results**

Thu, 11 Aug 2016 15:24:35

Lab Code: ALS	SDG: MF1D18	Contract: EPW14027	Submission Group Id: 30168001
Lab Name: ALS Environmental (SLC)	Case: 46321	Client: EPA Region 6	SOW: ISM02.3

# InitialCalibrationVerification

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 6 HOUSTON BRANCH 10625 FALLSTONE RD. HOUSTON, TEXAS 77099

September 2, 2016

### **MEMORANDUM**

SUBJECT:	-P 1	poratory Program Data Review
FROM:	1.50	ores, Alternate ESAT Regional Project Officer tal Services Branch (6MD-HL)
то:	Bret Kendric	ck, Superfund Project Manager (6SF-TR)
	Site:	LANE PLATING WORKS
	Case#:	46321
	SDC#·	MF1D37

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

### **ENVIRONMENTAL SERVICES ASSISTANCE TEAM**

ESAT Region 6 10625 Fallstone Road Houston, TX 77099

### Alion Science and Technology

### MEMORANDUM

DATE:

August 26, 2016

TO:

Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM:

Linda Hoffman, Data Reviewer, ESAT

THRU:

Dominic G. Jarecki, ESAT Program Manager, ESAT DGT

SUBJECT:

CLP Data Review

Contract No.:

EP-W-13-026

TO No.:

002 2-12

Task/Sub-Task:

1602-212-0024

ESAT Doc. No.: TDF No.:

6-16-295A

ESAT File No.:

I-0690

Attached is the data review summary for Case # 46321

SDG # MF1D37

Site Lane Plating Works

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 6

### HOUSTON BRANCH 10625 FALLSTONE ROAD HOUSTON, TEXAS 77099

### INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 46321 LABORATORY ALS CONTRACT# EP-W-14-027	SITE Lane Plating Works NO. OF SAMPLES 13 MATRIX Water						
SDG# MF1D37	REVIEWER (IF NOT		_				
SOW# ISM02.3	REVIEWER'S NAME	Linda Hoffman					
SF# 303DD2A6MS	COMPLETION DATE	August 26, 2016	_				
MF1D29 MF MF1D30 MF	1D32 MF1D37 1D33 MF1D38 1D34 MF1D39 1D35 MF1D40	MF1D41					

### DATA ASSESSMENT SUMMARY

CN

1.	HOLDING TIMES	0_
2.	CALIBRATIONS	_ O_
3.	BLANKS	0_
4.	MATRIX SPIKES	0_
5.	DUPLICATE ANALYSIS	_ O_
6.	ICP QC	N/A
7.	LCS	N/A
8.	SAMPLE VERIFICATION	0_
9.	OTHER QC	N/A
10.	OVERALL ASSESSMENT	0_

O = Data had no problems. M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

### ACTION ITEMS:

### AREAS OF CONCERN:

### COMMENTS/CLARIFICATIONS REGION 6 CLP QA REVIEW

### CASE 46321 SDG MF1D37 SITE Lane Plating Works LAB ALS

COMMENTS: This SDG consisted of thirteen water samples for cyanide analysis following SOW ISM02.3. The sampler designated sample MF1D37 for QC analyses.

The target analyte of concern with an action level of 5.2 ug/L was cyanide. However, the CRQL for cyanide is 10 ug/L, which is greater than the action level. Cyanide was not detected above 10 ug/L (the CRQL) in any of the samples.

S3VEM Review was performed for this package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: All results were acceptable. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory was contacted for a CSF issue (see Resubmission Request). The laboratory resubmission will not impact the DST, so the DST included is the final version.

#### INORGANIC ACRONYMS

Continuing Calibration Blank CCB Contract Compliance Screening CCS Continuing Calibration Verification CCV Cyanide CN Contract Required Quantitation Limit CROL Complete SDG File CSF DST Data Summary Table EDM EXES Data Manager HG Mercury Initial Calibration Blank ICB ICP Inductively Coupled Plasma Inductively Coupled Plasma-Atomic Emission Spectroscopy ICP-AES Inductively Coupled Plasma-Mass Spectrometry ICP-MS Interference Check Sample ICS Initial Calibration Verification ICV Internal Standard IS Laboratory Control Sample LCS Method Detection Limit MDL National Functional Guidelines NFG Performance Evaluation PE Percent Difference %D Percent Recovery %R Percent Relative Intensity %RI %RSD Percent Relative Standard Deviation Ouality Assurance OA Quality Control OC Quantitation Limit OL Relative Percent Difference RPD Regional Sample Control Center RSCC Stage 3 Validation Electronic and Manual (previously S3VEM called Modified CADRE Review) Stage 4 Validation Electronic and Manual (previously S4VEM called Standard Review) Sample Delivery Group SDG Sample Management Office SMO Statement of Work SOW Sample Quantitation Limit SQL Target Analyte List TAL

### HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Inorganic Data Validation Qualifier (see

Inorganic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

PRPDATE: Sample Preparation Date LRDATE: Laboratory Receipt Date

LEVEL: Sample Level

PERSOLD: Sample Percent Solids

SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water

Samples)

FINLVOL: Final Sample Volume METHOD: Method of Analysis STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information

reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the

technical usability of the reported results.

### INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U Not detected at reported quantitation limit.
- L Reported concentration is between the MDL and the CRQL.
- J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
- R Result is unusable.
- F A possibility of a false negative exists.
- UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
- High biased. Actual concentration may be lower than the concentration reported.
- Low biased. Actual concentration may be higher than the concentration reported.
- W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CAS	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
4632	MF1D37	MF1D27	1620335001	W	Field_Sample	07/28/2016	13:17:39	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/20/2016	07/27/2016	07/21/2016	Low	0.00	6	6	AS	SW-01
4632	MF1D37	MF1D29	1620335002	W	Field_Sample	07/28/2016	13:20:21	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/20/2016	07/27/2016	07/21/2016	Low	0.00	6	6	AS	SW-03
4632	MF1D37	MF1D30	1620335003	W	Field_Sample	07/28/2016	13:20:39	57-12-5	Cyanide	10.0	Ü	ug/L	10.0	07/20/2016	07/27/2016	07/21/2016	Low	0.00	6	6	AS	SW-04
4632	MF1D37	MF1D31	1620230001	W	Field_Sample	07/28/2016	13:16:09	57-12-5	Cyanide	10.0	Ü	ug/L	10.0	07/19/2016	07/27/2016	07/20/2016	Low	0.00	6	6	AS	SW-05
4632	MF1D37	MF1D32	1620230002	W	Field_Sample	07/28/2016	13:16:27	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/19/2016	07/27/2016	07/20/2016	Low	0.00	6	6	AS	SW-06
4632	MF1D37	MF1D33	1620230003	W	Field_Sample	07/28/2016	13:17:21	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/19/2016	07/27/2016	07/20/2016	Low	0.00	6	6	AS	SW-07
4632	MF1D37	MF1D34	1620468001	W	Field_Sample	07/28/2016	13:21:33	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/21/2016	07/27/2016	07/22/2016	Low	0.00	6	6	AS	SW-08
4632	MF1D37	MF1D35	1620468002	VV	Field_Sample	07/28/2016	13:21:51	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/21/2016	07/27/2016	07/22/2016	Low	0.00	6	6	AS	SW-09
4632	MF1D37	MF1D37	1620159001	W	Field_Sample	07/28/2016	13:09:15	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/18/2016	07/27/2016	07/19/2016	Low	0.00	6	6	AS	SW-11
4632	MF1D37	MF1D38	1620159004	W	Field_Sample	07/28/2016	13:13:10	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/18/2016	07/27/2016	07/19/2016	Low	0.00	6	6	AS	SW-12
4632	MF1D37	MF1D39	1620159005	W	Field_Sample	07/28/2016	13:13:27	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/18/2016	07/27/2016	07/19/2016	Low	0.00	6	6	AS	SW-13
4632	MF1D37	MF1D40	1620468003	W	Field_Sample	07/28/2016	13:24:33	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/21/2016	07/27/2016	07/22/2016	Low	0.00	6	6	AS	SW-14
4632	1 MF1D37	MF1D41	1620468004	W	Field_Sample	07/28/2016	13:24:51	57-12-5	Cyanide	10.0	U	ug/L	10.0	07/21/2016	07/27/2016	07/22/2016	Low	0.00	6	6	AS	SW-15

## INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 46321 SDG No. MF1D37 SDG Nos. To Follow Mod. Ref No. Date Rec. 08/11/16

EPA Lab ID: ALS	ORIGINALS	YES	NO	N/A
Lab Location: Salt Lake City, UT	CUSTODY SEALS			
Region: 6 Audit No.: 46321/MF1D37	Present on package?	X		
Re_Submitted CSF? Yes No X	2. Intact upon receipt?	X		
Box No(s):	FORM DC-2			
COMMENTS:	3. Numbering scheme accurate?	X		
	4. Are enclosed documents listed?	X		
14./15. Sample tags were not required for this case.	5. Are listed documents enclosed?	Х		
	FORM DC-1			
	6. Present?	X		
	7. Complete?	X		
	8. Accurate?	Х		
	TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
	9. Signed?	X		_
	10. Dated?	X		
	AIRBILLS/AIRBILL STICKER			
	11. Present?	X		
	12. Signed?	Х		
	13. Dated?	X		
	SAMPLE TAGS			
	14. Does DC-1 list tags as being included?			X
	15. Present?			X
	OTHER DOCUMENTS			
	16. Complete?	X	-	-
	17. Legible?	X		-
	18. Original?		X	
Over for additional comments.	18a. If "NO", does the copy indicate where original documents are located?	X		
Audited by:	L. Hoffman / ESAT Data Reviewer	Date	08/	26/16
Audited by:		Date		
Signature	Printed Name/Title			

DC-2\_

### Page 1 of 1

In Reference To: (I-0690)
Case No.: 46321 SDG(s): MF1D37

# Contract Laboratory Program REGIONAL/LABORATORY COMMUNICATION SYSTEM

### Resubmission Request

Laboratory Name:	ALS
Lab Contact:	Roxanne Olson
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Linda Hoffman - ESAT

In reference to data for the following fractions:

CSF Issue

### Summary of Questions/Issues:

The airbill number on the traffic report on page 13 does not agree with the airbill number recorded on the associated Form DC-1 (p. 17) or submitted airbill (p. 69). Please resolve and document this discrepancy in a revised SDG Narrative.

NOTE: Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM02.3, p. B-9, sec. 2.2.1). Custody seals are required only for regular mail shipments.

Please respond to the above item within 5 business days (ISM02.3, p. B-9, sec. 2.2.1) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

DateShipped: 7/18/2016 CarrierName: FedEx AirbillNo: 809524402173

### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas Case #: 46321 Cooler #: 1 No: 6-070816-132935-0001

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D18	Sediment/ Matthew Hubbard	Grab	CN(21)	1037 (None) (1)	SE-11	07/18/2016 16:05	Lab QC
MF1D19	Sediment/ Stephen Ellis	Grab	CN(21)	1114 (None) (1)	SE-12	07/18/2016 15:47	Field Sample
MF1D20	Sediment/ · Stephen Ellis	Grab	CN(21)	1041 (None) (1)	SE-13	07/18/2016 15:20	Field Sample
MF1D37	Surface Water/ Matthew Hubbard	Grab	CN(21)	1077 (NaOH pH >10) (1)	SW-11	07/18/2016 16:03	Lab QC
MF1D38	Surface Water/ Stephen Ellis	Grab	CN(21)	1081 (NaOH pH >10) (1)	SW-12	07/18/2016 15:45	Field Sample
MF1D39	Surface Water/ Stephen Ellis	Grab	CN(21)	1083 (NaOH pH >10) (1)	SW-13	07/18/2016 15:15	Field Sample
	MF1D19 MF1D20 MF1D37 MF1D38	Matthew Hubbard  MF1D19 Sediment/ Stephen Ellis  MF1D20 Sediment/ Stephen Ellis  MF1D37 Surface Water/ Matthew Hubbard  MF1D38 Surface Water/ Stephen Ellis  MF1D39 Surface Water/	Matthew Hubbard	Matthew Hubbard   Grab   CN(21)	Matthew Hubbard         Grab         CN(21)         1037 (None) (1)           MF1D19         Sediment/ Stephen Ellis         Grab         CN(21)         1114 (None) (1)           MF1D20         Sediment/ Stephen Ellis         Grab         CN(21)         1041 (None) (1)           MF1D37         Surface Water/ Matthew Hubbard         Grab         CN(21)         1077 (NaOH pH >10) (1)           MF1D38         Surface Water/ Stephen Ellis         Grab         CN(21)         1081 (NaOH pH >10) (1)           MF1D39         Surface Water/ Stephen Ellis         Grab         CN(21)         1083 (NaOH pH >10) (1)	Matthew Hubbard         SN(21)         1037 (None) (1)         SE-11           MF1D19         Sediment/ Stephen Ellis         Grab         CN(21)         1114 (None) (1)         SE-12           MF1D20         Sediment/ Stephen Ellis         Grab         CN(21)         1041 (None) (1)         SE-13           MF1D37         Surface Water/ Matthew Hubbard         Grab         CN(21)         1077 (NaOH pH >10) (1)         SW-11           MF1D38         Surface Water/ Stephen Ellis         Grab         CN(21)         1081 (NaOH pH >10) (1)         SW-12           MF1D39         Surface Water/ Stephen Ellis         Grab         CN(21)         1083 (NaOH pH >10) (1)         SW-13	MF1D18         Sediment/ Matthew Hubbard         Grab         CN(21)         1037 (None) (1)         SE-11         07/18/2016 16:05           MF1D19         Sediment/ Stephen Ellis         Grab         CN(21)         1114 (None) (1)         SE-12         07/18/2016 15:47           MF1D20         Sediment/ Stephen Ellis         Grab         CN(21)         1041 (None) (1)         SE-13         07/18/2016 15:20           MF1D37         Surface Water/ Matthew Hubbard         Grab         CN(21)         1077 (NaOH pH >10) (1)         SW-11         07/18/2016 16:03           MF1D38         Surface Water/ Stephen Ellis         Grab         CN(21)         1081 (NaOH pH >10) (1)         SW-12         07/18/2016 15:45           MF1D39         Surface Water/ Stephen Ellis         Grab         CN(21)         1083 (NaOH pH >10) (1)         SW-13         07/18/2016 15:15

Sample(s) to be used for Lab QC: MF1D18 Tag 1037, MF1D37 Tag 1077

Samples Transferred From Chain of Custody #

Analysis Key: CN=CLP Cyanide

Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Adress of The	7/13/16			
garante gara	110/16			
	Advenire Love	1 - 0	1 - 0	1 - 0

DateShipped: 7/20/2016 CarrierName: FedEx AirbillNo: 810257801911

### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas Case #: 46321 Cooler #: 1 No: 6-072016-154639-0005

Lab: ALS Laboratory Group - Salt Lake City Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D27	MF1D27	Surface Water/ Stephen Ellis	Grab	CN(21)	1054 (NaOH pH >10) (1)	SW-01	07/20/2016 12:15	Field Sample
MF1D29	MF1D29	Surface Water/ Stephen Ellis	Grab	CN(21)	1060 (NaOH pH >10) (1)	SW-03	.07/20/2016 09:40	Field Sample
MF1D30	MF1D30	Surface Water/ Stephen Ellis	Grab	CN(21)	1062 (NaOH pH >10) (1)	SW-04	07/20/2016 09:24	Field Sample
								21.,
						-1		
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	Shipment for Case Complete? N
Special Instructions: Samples MF1D02, MF1D03, MF1D04, and MF1D07 may have high concentrations.	Samples Transferred From Chain of Custody #
Analysis Key: CN=CLP Cyanide	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Language Line	1/20/11			
-	Savenne Hove	11/2/11/0			
		10			
		=			

DateShipped: 7/19/2016 CarrierName: FedEx AirbillNo: 809524402130

### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas Case #: 46321 Cooler #: 1 No: 6-071916-152450-0003

Lab: ALS Laboratory Group - Salt Lake City Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D05	MF1D05	Soil/ Stephen Ellis	Grab	CN(21)	1011 (None) (1)	SO-06	07/19/2016 12:55	Field Sample
MF1D12	MF1D12	Sediment/ Stephen Ellis	Grab	CN(21)	1025 (None) (1)	SE-05	07/19/2016 12:45	Field Sample
MF1D14	MF1D14	Sediment/ Stephen Ellis	Grab	CN(21)	1029 (None) (1)	SE-07	07/19/2016 14:55	Field Sample
MF1D17	MF1D17	Sediment/ Matthew Hubbard	Grab	CN(21)	1035 (None) (1)	SE-10	07/19/2016 09:55	Field Sample
MF1D31	MF1D31	Surface Water/ Stephen Ellis	Grab	CN(21)	1064 (NaOH pH >10) (1)	SW-05	07/19/2016 15:20	Field Sample
MF1D32	MF1D32	Surface Water/ Stephen Ellis	Grab	CN(21)	1066 (NaOH pH >10) (1)	SW-06	07/19/2016 15:05	Field Sample
MF1D33	MF1D33	Surface Water/ Stephen Ellis	Grab	GN(21)	1069 (NaOH pH >10) (1)	SW-07	07/19/2016 14:50	Field Sample
					*			8
						(*		
	74							

	Shipment for Case Complete? N
Special Instructions:	Samples Transferred From Chain of Custody#
Analysis Key: CN=CLP Cyanide	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Ad. 11	7/19/11			
	Davenne fine	111110			
		p			
					-
	2				72

DateShipped: 7/21/2016 CarrierName: FedEx AirbillNo: 810257801841

### CHAIN OF CUSTODY RECORD

Lane Plating Works/Texas Case #: 46321 Cooler #: 1 No: 6-072116-134031-0007

Lab: ALS Laboratory Group - Salt Lake City Lab Contact: Meredith Edwards

Lab	Phone:	801-266-7700

Sample Identifier	CLP Sample · No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
MF1D13	MF1D13	Sediment/ Stephen Ellis	Grab	CN(21)	1027 (None) (1)	SE-06	07/21/2016 12:05	Field Sample
MF1D15	MF1D15	Sediment/ Stephen Ellis	Grab	CN(21)	1031 (None) (1)	SE-08	07/21/2016 11:10	Field Sample
MF1D16	MF1D16	Sediment/ Stephen Ellis	Grab	CN(21)	1033 (None) (1)	SE-09	07/21/2016 10:40	Field Sample
MF1D21	MF1D21	Sediment/ Stephen Ellis	Grab	CN(21)	1043 (None) (1)	SE-14	07/21/2016 11:15	Field Duplicate
MF1D22	MF1D22	Sediment/ . Stephen Ellis	Grab	CN(21)	1045 (None) (1)	SE-15	07/21/2016 10:45	Field Duplicate
MF1D34	MF1D34	Surface Water/ Stephen Ellis	Grab	CN(21)	1071 (NaOH pH >10) (1)	SW-08	07/21/2016 11:00	Field Sample
MF1D35	MF1D35	Surface Water/ Stephen Ellis	Grab	CN(21)	1073 (NaOH pH >10) (1)	SW-09	07/21/2016 10:30	Field Sample
MF1D40	MF1D40	Surface Water/ Stephen Ellis	Grab	CN(21)	1085 (NaOH pH >10) (1)	SW-14	07/21/2016 11:05	Field Duplicate
MF1D41	MF1D41	Surface Water/ Stephen Ellis	Grab	CN(21)	1087 (NaOH pH >10) (1)	SW-15	07/21/2016 10:35	Field Duplicate
77,								
				19				

	Shipment for Case Complete? Y
Special Instructions:	Samples Transferred From Chain of Custody #
Analysis Key: CN=CLP Cyanide	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Adams of a	7/2/1/			
	domennegrove	1/2/10			
	V				
			*		

# **ADDENDUM**

34 052

### **Data Review Results**

Thu, 11 Aug 2016 14:21:37

Lab Code: ALS SDG: MF1D37 Contract: EPW14027 Submission Group Id: 30168002
Lab Name: ALS Environmental (SLC) Case: 46321 Client: EPA Region 6 SOW: ISM02.3

### HoldingTimes Preservation

### Method - Cyanide

Test Name: EXES-461

Defect Message: The following aqueous samples were not maintained at =  $6^{\circ}$ C (but not frozen) from time of collection until receipt at the laboratory. Use Professional Judgement to qualify detects as J- and nondetects as R.

Associated Samples: MF1D27, MF1D29, MF1D30, MF1D31, MF1D32, MF1D33, MF1D37, MF1D37D, MF1D37S, MF1D38, MF1D39

Defective Analyte	Defective Samples/Analyses
	MF1D33, MF1D32, MF1D31, MF1D30, MF1D37D, MF1D39, MF1D27, MF1D37S, MF1D37, MF1D39, MF1D38

## Data Review Results

Thu, 11 Aug 2016 14:21:37

Lab Code: ALS	SDG: MF1D37	Contract: EPW14027	Submission Group Id: 30168002
Lab Name: ALS Environmental (SLC)	Case: 46321	Client: EPA Region 6	SOW: ISM02.3

## Initial Calibration

## **Data Review Results**

Thu, 11 Aug 2016 14:21:37

Lab Code: ALS	SDG: MF1D37	Contract: EPW14027	Submission Group Id: 30168002
Lab Name: ALS Environmental (SLC)	Case: 46321	Client: EPA Region 6	SOW: ISM02.3

## Continuing Calibration Verification

**Data Review Results** 

Thu, 11 Aug 2016 14:21:37

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Lab Code: ALS SDG: MF1D37 Contract: EPW14027 Submission Group Id: 30168002
Lab Name: ALS Environmental (SLC) Case: 46321 Client: EPA Region 6 SOW: ISM02.3

Blanks

## **Data Review Results**

Thu, 11 Aug 2016 14:21:37

Lab Code: ALS	SDG: MF1D37	Contract: EPW14027	Submission Group Id: 30168002	
Lab Name: ALS Environmental (SLC)	Case: 46321	Client: EPA Region 6	SOW: ISM02.3	

## MatrixSpikes

# **Data Review Results**

Thu, 11 Aug 2016 14:21:37

Contract: EPW14	4027 Submission Group Id: 30168002
Client: EPA Regi	ion 6 SOW: ISM02.3
7	TargetAnalyteQuantitation

## **Data Review Results**

Thu, 11 Aug 2016 14:21:37

W: ISM02.3
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## Data Validation Report

## **Data Review Results**

Thu, 11 Aug 2016 14:21:37

Lab Code: ALS	SDG: MF1D37	Contract: EPW14027	Submission Group Id: 30168002
Lab Name: ALS Environmental (SLC)	Case: 46321	Client: EPA Region 6	SOW: ISM02.3

## **Duplicates**

## **Data Review Results**

Thu, 11 Aug 2016 14:21:37

Lab Code: ALS	SDG: MF1D37	Contract: EPW14027	Submission Group Id: 30168002
Lab Name: ALS Environmental (SLC)	Case: 46321	Client: EPA Region 6	SOW: ISM02.3

### InitialCalibrationVerification